INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001067

Α.	CLASSIFICATION OF SUBJECT MATT	ΓER					
Int. Cl. 7:	G06N 1/00, H01L 29/15, G01R 29/24						
According to 1	International Patent Classification (IPC) or	to both	national classification and IPC				
В.	FIELDS SEARCHED						
Minimum docu	mentation searched (classification system follo	wed by cl	assification symbols)				
•			ent that such documents are included in the fields search	hed			
Electronic data DWPI, JAPI	O Keywords: qubit, quantum; energ,	, well; c	data base and, where practicable, search terms used) oupl, tunnel; weak, adiabatic, afp, slow var, r l, adjust, scan, modulat; output	ead out,			
GOOGLE	Keywords: adiabatic fast passage;	; quantu	ım ·				
C.	DOCUMENTS CONSIDERED TO BE RELE	VANT					
Category*	* Citation of document, with indication, where appropriate, of the relevant passages						
P, X	A. D. Greentree et al., "Charge shelving and bias spectroscopy for the readout of a charge qubit on the basis of superposition states", Physical Review B, 16 July 2004, vol. 70, article 041305 Whole document A. D. Greentree et al., "Electrical readout of a spin qubit without double occupancy" (online), 24 March 2004 (retrieved on 8 October 2004). Retrieved from the Internet <url: abs="" cond-mat?0403449="" http:="" xxx.lanl.gov="">. P, X Whole document</url:>						
P, X							
X F	urther documents are listed in the con	tinuatio	n of Box C X See patent family ann	ex			
"A" docume not cons	categories of cited documents: int defining the general state of the art which is sidered to be of particular relevance application or patent but published on or after the ional filing date	"X" (ater document published after the international filing date or properties with the application but cited to understand the principal underlying the invention document of particular relevance; the claimed invention cannot cannot be considered to involve an inventive step when the	ple or theory t be considered novel			
"L" document which may throw doubts on priority claim(s) "Y" doc or which is cited to establish the publication date of inv			alone document of particular relevance; the claimed invention canno involve an inventive step when the document is combined with such documents, such combination being obvious to a person	t be considered to			
"O" document referring to an oral disclosure use exhibition			cument member of the same patent family				
"P" docume	ent published prior to the international filing date r than the priority date claimed						
	ual completion of the international search		Date of mailing of the international search report				
11 October 2004			1 4 OCT 2004				
Name and mai	ling address of the ISA/AU		Authorized officer	•			
PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA s: pct@ipaustralia.gov.au (02) 6285 3929		MICHAEL HALL Telephone No: (02) 6283 2474				

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International application No.

PCT/AU2004/001067

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to			
	Charles of document, with indication, where appropriate, of the following passages				
	US 5663571 A (UGAJIN) 2 September 1997				
Α	Whole document	1-41			
	Patent Abstracts of Japan, JP 09-326485 A (SONY CORP) 16 December 1997.				
· A	Whole document	1-41			
	Hollenberg et al., "Charge-based quantum computing using single donors in	·			
•	semiconductors" (online), 10 June 2003 (retrieved 11 October 2004). Retrieved from the Internet <url: abs="" au.arxiv.org="" cond-mat?0306235="" http:="">.</url:>				
Α	Whole document	1-41			
	WO 2004/049252 A2 (D-WAVE SYSTEMS, INC.) 10 June 2004				
P, A	Pages 26-29	1-41			
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001067

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
US	5663571	JP	7297381					
JP	9326485	NONE			•	•		
wo	04049252	NONE		-				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX